



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

January 18, 2017

Ms. Melinda Bowman
MacDermid Agricultural Solutions, Inc.
245 Freight Street
Waterbury, CT 06702

Subject: Registration Review Label Mitigation for Triflumizole
Product Name: Terraguard LS
EPA Registration Number: 400-502
Decision Number: 509807

Dear Ms. Bowman:

The Agency, in accordance with the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, has completed reviewing all of the information submitted with your application to support the Registration Review of the above referenced product in connection with the Triflumizole Final and/or Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

A copy of your label stamped "Accepted" is enclosed. Products shipped after 12 months from the date of this amendment must bear the new revised label. Your release for shipment of the product bearing the amended label constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions about this letter, please contact Heather Garvie by phone at 703-308-0034, or via email at garvie.heather@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to be "H. Johnson", is written over a circular stamp.

Hope Johnson, Product Manager 21
Fungicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure: Stamped accepted master label

Terraguard® LS

50% WETTABLE POWDER

FUNGICIDE

COMPOSITION

Active Ingredient; (% by weight)

Triflumizole

1-[1-[[4-chloro-2-(trifluoromethyl)phenyl]imino]-2-propoxyethyl]-1H-imidazole.....

50%

Other ingredients:.....

50%

Total:.....

100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

Net Contents:

FIRST AID

IF IN EYES	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.• Remove contact lens, if present, after the first 5 minutes, then continue rinsing.• Call a poison control center or doctor for treatment advice.
IF SWALLOWED	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow.• Do not induce vomiting unless told to by the poison control center or doctor.• Do not give anything to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15 to 20 minutes.• Call a poison control center or doctor for treatment advice.

EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

MEDICAL EMERGENCY	800-292-5898
TRANSPORTATION EMERGENCY (CHEMTREC)	800-424-9300
PRODUCT SAFETY DATA (SDS)	800-423-8569

For PRODUCT USE INFORMATION: Call 800-423-8569

See inside booklet for additional First Aid, Precautionary Statements, and Directions for Use

Manufactured for:
MacDermid Agricultural Solutions, Inc.
245 Freight Street
Waterbury, CT 06702

EPA REG. NO. 400-502
EPA EST. NO.
004/XXXXXX

ACCEPTED

Jan 18, 2017

Under the Federal Insecticide, Fungicide
and Rodenticide Act as amended, for the
pesticide registered under
EPA Reg. No. 400-502

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed, or absorbed through the skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Do not get in eyes, on skin or on clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact with this product may cause allergic skin reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below.

Applicators and Other Handlers Must Wear: A long-sleeved shirt & long pants; chemical-resistant gloves made of any waterproof material; shoes plus socks; a chemical-resistant hat when using open cab air blast equipment.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Read entire label directions before using.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry, secure location.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

PRODUCT INFORMATION

TERRAGUARD LS fungicide is effective in controlling a variety of diseases on landscape grown ornamental trees and shrubs as well as to certain listed residential/non-commercial fruit-bearing trees and vines. When applied as a foliar spray,

TERRAGUARD LS has translaminar activity and is locally systemic within the plant. TERRAGUARD LS provides excellent protectant activity and is most effective when applied prior to the onset of disease. When not used in preventative programs, TERRAGUARD LS can be applied after disease symptoms appear to provide good eradicant activity.

MIXING INSTRUCTIONS

Fill the mixing tank with half the required amount of water. Then add TERRAGUARD LS with agitation running to insure proper mixing and suspension of product. Then, fill the tank with the remaining amount of required water. The mixture of TERRAGUARD LS and water should be continuously agitated to assure uniform application.

TREES, SHRUBS AND VINES

TERRAGUARD LS may be used as a foliar spray to only landscape grown ornamental trees, shrubs, apples, pears and grapes. Do not apply TERRAGUARD LS to any other fruit-bearing trees or vines.

TERRAGUARD LS is effective in controlling a variety of diseases on trees, shrubs and vines in landscaped areas around:

- Residences
- Institutions
- Public, commercial and industrial buildings
- Recreational sites (campgrounds, golf courses, parks and athletic fields)
- Rights of way and other easements

USES AND RATES OF APPLICATION

PLANT TYPE	DISEASE	OUNCES TERRAGUARD LS PER 100 GAL* (LB AI/A)	APPLICATION INSTRUCTIONS
Ornamental Trees Shrubs	Botrytis Blight <i>(Botrytis cinerea)</i> Leaf Spot <i>(Alternaria spp.)</i> <i>(Exserohilum rostratum)</i> <i>(Helminthosporium rostratum)</i> Powdery Mildew <i>(Erysiphe cichoracearum)</i> <i>(Erysiphe lagerstromiae)</i> <i>(Oidium spp.)</i> <i>(Podospaera spp.)</i> <i>(Sphaerotheca pannosa)</i> Rust <i>(Puccinia spp.)</i> <i>(Gymnosporangium spp.)</i> Scab <i>(Venturia spp.)</i>	4 to 8 (0.125 – 0.25 lb ai/A)	Apply prior to or at very first sign of infection. Repeat applications can be made at no less than 14 day intervals.
Apples**	Powdery Mildew <i>(Oidium spp.)</i> <i>(Podospaera spp.)</i> Rust <i>(Gymnosporangium spp.)</i> Scab <i>(Venturia inaequalis)</i>	2 to 4 (0.063 - 0.125 lb ai/A)	Apply prior to or at very first sign of infection. Repeat applications can be made at no less than 14 day intervals. A 21 day interval is required between the second and third application. Do not apply within 14 days of harvest.
Pears**	Powdery Mildew <i>(Oidium spp.)</i> <i>(Podospaera spp.)</i> Scab <i>(Venturia inaequalis)</i>	2 to 4 (0.063 - 0.125 lb ai/A)	Apply prior to or at very first sign of infection. Repeat applications can be made at no less than 14 day intervals. A 21 day interval is required between the second and third application. Do not apply within 14 days of harvest.
Grapes**	Powdery Mildew <i>(Unicula spp.)</i>	2 to 4 (0.063 - 0.125 lb ai/A)	Apply prior to or at very first sign of infection. Repeat applications can be made at no less than 14 day intervals. Do not apply within 7 days of harvest.
<p>* Required spray volumes will vary greatly depending on both the size and spacing of the trees, shrubs and vines. The volume applied should be enough to ensure thorough coverage of the foliage just to the point of drip, but must not exceed 200 gallons per acre.</p> <p>RESTRICTIONS:</p> <p>Do not exceed a spray volume of 200 gallons per acre.</p> <p>Do not make more than 4 applications per crop per year.</p> <p>Do not apply more than 4 fl oz (0.125 lb ai) per acre per application for apples, pears and grapes.</p> <p>Do not apply more than 8 fl oz (0.25 lb ai) per acre per application for ornamental trees and shrubs.</p> <p>Do not apply more than 32 fl oz per acre per year for ornamental trees and shrubs. Do not apply more than 16 fl oz per acre per year for apples, pears and grapes.</p> <p>**Not for use on agricultural establishments.</p>			

PLANT TOLERANCE:

Neither the manufacturer nor the seller has determined whether or not TERRAGUARD LS can be used safely on all ornamental plants. Prior to any large scale application, the user should determine the safety of TERRAGUARD LS by testing a small number of the type of plants to be treated at the specified rates.

IMPORTANT NOTICE

The directions on this label are derived from research to ensure correct product usage. Insufficient control may result from extremes in weather conditions, or lack of following label instruction. The use of this product is beyond the control of MacDermid Agricultural Solutions and the seller. Buyer is responsible for proper use as per directions and acceptance of product performance under extraordinary or unusual weather conditions. To the extent consistent with applicable law, MacDermid Agricultural Solutions is not responsible for losses or damage resulting from using TERRAGUARD LS in any manner not specified. Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty of merchantability nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, the buyer assumes the risk of any such use.

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